



October 23, 1995

U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Attention: Document Control Desk

Subject: Braidwood Station Units 1 and 2  
Byron Station Units 1 and 2  
Dresden Station Units 2, and 3  
LaSalle County Station Units 1 and 2  
Quad Cities Station Units 1 and 2  
Zion Station Units 1 and 2

10 CFR Part 21 Final Report 95-007  
ComEd Amerace E7000 Series Relay Timers May  
Be Used in Unqualified Configurations

NRC Dockets 50-456 and 50-457  
NRC Dockets 50-454 and 50-455  
NRC Dockets 50-237 and 50-249  
NRC Dockets 50-373 and 50-374  
NRC Dockets 50-254 and 50-265  
NRC Dockets 50-295 and 50-304

- Reference: (1) ComEd letter dated August 23, 1995, "10 CFR Part 21 Interim Report 95-007 ComEd Amerace E7000 Series Relay Timers May Be Used in Unqualified Configurations."  
(2) ComEd letter dated June 21, 1995, "10 CFR Part 21 Interim Report 95-007 ComEd Amerace E7000 Series Relay Timers May Be Used in Unqualified Configurations."

Applicability

This notification is submitted in accordance with the requirements of 10 CFR Part 21, Section 21.21(a)(2).

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Identification of Facilities and Components

Byron Nuclear Generating Station Units 1 and 2  
Braidwood Nuclear Generating Station Units 1 and 2  
Dresden Nuclear Generating Station Units 2 and 3  
LaSalle Nuclear Generating Station Units 1 and 2  
Quad Cities Nuclear Generating Station Units 1 and 2  
Zion Nuclear Generating Station Units 1 and 2

Amerace E7000 Series Relay Timers used in various safety related applications at all 6 ComEd nuclear generating stations.

Identification of Component Manufacturer/Supplier

Amerace Electronic Components  
7474 Utilities Road  
Punta Gorda, FL 333982

Nature of Defect

The defect is related to a notification from Amerace of a reduction in contact rating for Amerace E7000 Series relay timers. The published rating was reduced for circuits serving loads rated at 1.0 amp at 125 VDC. The new rating is 0.5 amps at 125 VDC. Amerace requested that ComEd review any DC applications with the E7000 series timer that may be required to switch 125 VDC at 1.0 amp. Amerace indicated that, per test data, the fragility level of the contact blocks was determined to be between 0.68 amps and 0.71 amps at 125 VDC.

Time of Discovery

Commonwealth Edison Company first determined that the potential misapplication of the Amerace E7000 relays could potentially adversely affect safety related equipment and that the defect could be reportable per 10CFR21 on April 25, 1995. An interim notification of 10CFR21 potential reportability was made to the NRC on June 21, 1995. A second interim notification of 10CFR21 potential reportability was made to the NRC on August 23, 1995. This letter provides the final status of ComEd's 10CFR21 evaluation.

Number and Location of All Defective Components:

The Amerace relay timers are used in various safety related applications at all six ComEd sites. The approximate applications range from 24 at LaSalle Station, 33 at Quad Cities, 93 at Dresden, 55 at Zion, to 250 at Byron and Braidwood Stations.

Corrective Actions:

Conversations were held with the vendor (Amerace) and Southern California Edison (utility who performed the original testing which determined the new contact ratings). ComEd determined that the information transmitted from Amerace regarding the contact rating may not have been sufficiently substantiated. The "make" ratings, according to Southern California Edison, were not directly tested for maximum rating, but the contacts were tested at 1 amp switching applications. Since there appeared to be discrepant information regarding the ratings, ComEd pursued testing the relay contacts to demonstrate the capability of the contacts. This testing provided sufficient information to allow an appropriate 10CFR21 reportability determination. ComEd has been able to fully disposition all potentially affected applications at Zion, LaSalle, Byron, Braidwood, Dresden and Quad Cities.

10 CFR 21 Evaluation


The evaluations of all applications at ComEd have been completed. No applications have been determined to meet the reportability requirements of 10 CFR Part 21 and no safety significance exists.

Contacts

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Sincerely,



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Licensing Operations Director

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